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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/815,306

DATE: 09/21/2001

TIME: 18:18:08

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Output Set: N:\CRF3\09212001\I815306.raw

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3 <110> APPLICANT: CHEN, WEN Y.
4   WAGNER, THOMAS E.
6 <120> TITLE OF INVENTION: BI-FUNCTIONAL CANCER TREATMENT AGENTS
8 <130> FILE REFERENCE: 035879/0120
10 <140> CURRENT APPLICATION NUMBER: 09/815,306
11 <141> CURRENT FILING DATE: 2001-03-23
13 <150> PRIOR APPLICATION NUMBER: 60/191,457
14 <151> PRIOR FILING DATE: 2000-03-23
16 <160> NUMBER OF SEQ ID NOS: 33
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 227
22 <212> TYPE: PRT
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
26 Met Asn Ile Lys Gly Ser Pro Trp Lys Gly Ser Leu Leu Leu Leu Leu
27   1           5           10           15
29 Val Ser Asn Leu Leu Leu Cys Gln Ser Val Ala Pro Leu Pro Ile Cys
30           20           25           30
32 Pro Gly Gly Ala Ala Arg Cys Gln Val Thr Leu Arg Asp Leu Phe Asp
33           35           40           45
35 Arg Ala Val Val Leu Ser His Tyr Ile His Asn Leu Ser Ser Glu Met
36           50           55           60
38 Phe Ser Glu Phe Asp Lys Arg Tyr Thr His Gly Arg Gly Phe Ile Thr
39   65           70           75           80
41 Lys Ala Ile Asn Ser Cys His Thr Ser Ser Leu Ala Thr Pro Glu Asp
42           85           90           95
44 Lys Glu Gln Ala Gln Gln Met Asn Gln Lys Asp Phe Leu Ser Leu Ile
45           100          105          110
47 Val Ser Ile Leu Arg Ser Trp Asn Glu Pro Leu Tyr His Leu Val Thr
48           115          120          125
50 Glu Val Arg Gly Met Gln Glu Ala Pro Glu Ala Ile Leu Ser Lys Ala
51           130          135          140
53 Val Glu Ile Glu Glu Gln Thr Lys Arg Leu Leu Glu Gly Met Glu Leu
54   145          150          155          160
56 Ile Val Ser Gln Val His Pro Glu Thr Lys Glu Asn Glu Ile Tyr Pro
57           165          170          175
59 Val Trp Ser Gly Leu Pro Ser Leu Gln Met Ala Asp Glu Glu Ser Arg
60           180          185          190
62 Leu Ser Ala Tyr Tyr Asn Leu Leu His Cys Leu Arg Arg Asp Ser His
63           195          200          205
65 Lys Ile Asp Asn Tyr Leu Lys Leu Leu Lys Cys Arg Ile Ile His Asn
66           210          215          220
68 Asn Asn Cys
69 225
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 21

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74 <212> TYPE: PRT
75 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 2
78 Ile Glu Glu Gln Thr Lys Arg Leu Leu Arg Gly Met Glu Leu Ile Val
79   1           5           10           15
81 Ser Gln Val His Pro
82           20
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 21
87 <212> TYPE: PRT
88 <213> ORGANISM: Rattus sp.
90 <400> SEQUENCE: 3
91 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Ile Glu Lys Ile Ile
92   1           5           10           15
94 Gly Gln Ala Tyr Pro
95           20
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 21
100 <212> TYPE: PRT
101 <213> ORGANISM: Mus sp.
103 <400> SEQUENCE: 4
104 Ile Glu Glu Gln Asn Lys Gln Leu Leu Glu Gly Val Glu Lys Ile Ile
105   1           5           10           15
107 Ser Gln Ala Tyr Pro
108           20
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 21
113 <212> TYPE: PRT
114 <213> ORGANISM: Cricetus sp.
116 <400> SEQUENCE: 5
117 Ile Gly Glu Gln Asn Lys Arg Leu Leu Glu Gly Ile Glu Lys Ile Leu
118   1           5           10           15
120 Gly Gln Ala Tyr Pro
121           20
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 21
126 <212> TYPE: PRT
127 <213> ORGANISM: Cetacea sp.
129 <400> SEQUENCE: 6
130 Glu Glu Glu Glu Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
131   1           5           10           15
133 Gly Gln Val His Pro
134           20
137 <210> SEQ ID NO: 7
138 <211> LENGTH: 21
139 <212> TYPE: PRT
140 <213> ORGANISM: Mustela sp.
142 <400> SEQUENCE: 7
143 Ile Glu Glu Glu Asn Arg Arg Leu Leu Glu Gly Met Glu Lys Ile Val

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144      1              5              10              15
146 Gly Gln Val His Pro
147              20
150 <210> SEQ ID NO: 8
151 <211> LENGTH: 21
152 <212> TYPE: PRT
153 <213> ORGANISM: Bos sp.
155 <400> SEQUENCE: 8
156 Ile Glu Glu Gln Asn Lys Arg Leu Ile Glu Gly Met Glu Met Ile Phe
157      1              5              10              15
159 Gly Gln Val Ile Pro
160              20
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 21
165 <212> TYPE: PRT
166 <213> ORGANISM: Ovis sp.
168 <400> SEQUENCE: 9
169 Glu Glu Glu Glu Asn Lys Arg Leu Leu Glu Gly Met Glu Asn Ile Phe
170      1              5              10              15
172 Gly Gln Val Ile Pro
173              20
176 <210> SEQ ID NO: 10
177 <211> LENGTH: 21
178 <212> TYPE: PRT
179 <213> ORGANISM: Porcine sp.
181 <400> SEQUENCE: 10
182 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
183      1              5              10              15
185 Gly Gln Val His Pro
186              20
189 <210> SEQ ID NO: 11
190 <211> LENGTH: 21
191 <212> TYPE: PRT
192 <213> ORGANISM: Camelus sp.
194 <400> SEQUENCE: 11
195 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
196      1              5              10              15
198 Gly Gln Val His Pro
199              20
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 21
204 <212> TYPE: PRT
205 <213> ORGANISM: Equus caballus
207 <400> SEQUENCE: 12
208 Glu Ile Glu Gln Asn Arg Arg Leu Leu Glu Gly Met Glu Lys Ile Val
209      1              5              10              15
211 Gly Gln Val Gln Pro
212              20
215 <210> SEQ ID NO: 13

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216 <211> LENGTH: 21
217 <212> TYPE: PRT
218 <213> ORGANISM: Elephantus sp.
220 <400> SEQUENCE: 13
221 Val Lys Glu Glu Asn Gln Arg Leu Leu Glu Gly Ile Glu Lys Ile Val
222   1           5           10           15
224 Asp Gln Val His Pro
225           20
228 <210> SEQ ID NO: 14
229 <211> LENGTH: 21
230 <212> TYPE: PRT
231 <213> ORGANISM: Unknown Organism
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Unknown Organism: Ancestral mammal
236 <400> SEQUENCE: 14
237 Ile Glu Glu Glu Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
238   1           5           10           15
240 Gly Gln Val His Pro
241           20
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 21
246 <212> TYPE: PRT
247 <213> ORGANISM: Gallus sp.
249 <400> SEQUENCE: 15
250 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
251   1           5           10           15
253 Gly Arg Val His Ser
254           20
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 21
259 <212> TYPE: PRT
260 <213> ORGANISM: Meleagris gallopavo
262 <400> SEQUENCE: 16
263 Ile Glu Glu Gln Asp Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
264   1           5           10           15
266 Gly Arg Ile His Ser
267           20
270 <210> SEQ ID NO: 17
271 <211> LENGTH: 21
272 <212> TYPE: PRT
273 <213> ORGANISM: Turtur sp.
275 <400> SEQUENCE: 17
276 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
277   1           5           10           15
279 Gly Gln Val His Pro
280           20
283 <210> SEQ ID NO: 18
284 <211> LENGTH: 21
285 <212> TYPE: PRT

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286 <213> ORGANISM: Crocodilus sp.
 288 <400> SEQUENCE: 18
 289 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Ile
 290 1 5 10 15
 292 Gly Arg Val Gln Pro
 293 20
 296 <210> SEQ ID NO: 19
 297 <211> LENGTH: 21
 298 <212> TYPE: PRT
 299 <213> ORGANISM: Lacerta sp.
 301 <400> SEQUENCE: 19
 302 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Val Ile
 303 1 5 10 15
 305 Gly Arg Val Gln Pro
 306 20
 309 <210> SEQ ID NO: 20
 310 <211> LENGTH: 21
 311 <212> TYPE: PRT
 312 <213> ORGANISM: Unknown Organism
 314 <220> FEATURE:
 315 <223> OTHER INFORMATION: Description of Unknown Organism: Ancestral amniote
 317 <400> SEQUENCE: 20
 318 Ile Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 319 1 5 10 15
 321 Gly Gln Val His Pro
 322 20
 325 <210> SEQ ID NO: 21
 326 <211> LENGTH: 21
 327 <212> TYPE: PRT
 328 <213> ORGANISM: Xenopus sp.
 330 <400> SEQUENCE: 21
 331 Val Glu Glu Gln Asn Lys Arg Leu Leu Glu Gly Met Glu Lys Ile Val
 332 1 5 10 15
 334 Gly Arg Ile His Pro
 335 20
 338 <210> SEQ ID NO: 22
 339 <211> LENGTH: 21
 340 <212> TYPE: PRT
 341 <213> ORGANISM: Rana catesbeiana
 343 <400> SEQUENCE: 22
 344 Val Glu Glu Gln Thr Lys Arg Leu Leu Glu Gly Met Glu Arg Ile Ile
 345 1 5 10 15
 347 Gly Arg Ile Gln Pro
 348 20
 351 <210> SEQ ID NO: 23
 352 <211> LENGTH: 21
 353 <212> TYPE: PRT
 354 <213> ORGANISM: Dipnoi sp.
 356 <400> SEQUENCE: 23

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/815,306

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